

AMENDMENT TO THE CLAIMS:

1. (ORIGINAL) A mechanical apparatus operable for rapid replacement of one or more RF fixture customizations, comprising:

an RF enclosure;

a drawer base plate, coupled to the RF enclosure;

a nest stationary base plate, coupled to the drawer base plate, said nest stationary base plate further comprising:

one or more o-rings, coupled to one or more holes located in stationary base plate and coupled to one or more corresponding holes in the drawer base plate;

one or more fasteners, coupled to the nest stationary base plate in one or more locations and coupled to the drawer base plate in the one or more locations;

one or more electrical connectors, coupled to the nest stationary base plate, said one or more electrical connectors operable to carry electrical signals;

one or more pneumatic actuators, coupled to the nest stationary base plate, said one or more pneumatic actuators operable by pressurized gas provided to one or more corresponding nests through the one or more o-rings;

a stationary base assembly, coupled to the nest stationary base plate;

one or more lower nest assemblies, coupled to the stationary base assembly, said one or more lower nest assemblies operable to support the one or more corresponding nests; and

one or more upper nest assemblies, coupled to the one or more corresponding lower nest assemblies, said one or more upper nest assemblies operable to support the one or more corresponding nests.

2. (ORIGINAL) The mechanical apparatus of claim 1, wherein the drawer base plate comprises one or more guide plates, said guide plates operable to enable the nest stationary base plate to be oriented with respect to the drawer base plate.
3. (ORIGINAL) The mechanical apparatus of claim 1, wherein the one or more o-rings are placed on two straight lines along the long axis of the drawer base plate.
4. (ORIGINAL) The mechanical apparatus of claim 1, wherein the one or more pneumatic fittings are placed below the one or more o-ring locations.
5. (ORIGINAL) The mechanical apparatus of claim 1, wherein the fastener tightens the drawer plate to the stationary base plate.

6. (ORIGINAL) The mechanical apparatus of claim 1, wherein the one or more lower nest assembly and the upper nest assembly contain one or more alignment features suitable for aligning a lower nest assembly with the corresponding upper nest assembly.

7. (ORIGINAL) The mechanical apparatus of claim 1, wherein the stationary base assembly further comprises:

a base probe plate;

one or more guide shafts, coupled to the base probe plate;

one or more locating cones for upper nest assembly alignment, coupled to the guide shaft;

one or more down stops, coupled to the one or more guide shafts and coupled to the base probe plate from above;

a left standoff, coupled to the base probe plate from below;

a right standoff, coupled to the base probe plate from above;

one or more pneumatic fittings, coupled to one of the left standoff and the right standoff; and

a PCA mount, coupled to the right standoff and coupled to the left standoff.

8. (ORIGINAL) The mechanical apparatus of claim 1, wherein the lower nest assembly further comprises:

a left bearing mount, coupled to the upper nest assembly;

a right bearing mount, coupled to the upper nest assembly;

DUT support plate, coupled to the stationary base assembly, coupled to the right bearing mount, and coupled to the left bearing mount; and

a pneumatic air supply assembly, coupled to the DUT support plate, said pneumatic air supply assembly operable to supply pressurized air to a nest.

9. (ORIGINAL) The mechanical apparatus of claim 1, wherein the upper nest assembly further comprises:

an upper nest plate, coupled to the lower nest assembly;

a cross bar, coupled to the upper nest plate; and

one or more screws, coupled to the cross bar, said one or more screws operable to couple the upper nest assembly to the lower nest assembly.

10. (PREVIOUSLY PRESENTED) A mechanical apparatus operable for rapid replacement of one or more RF fixture customizations, further comprising:

an RF enclosure;

a drawer base plate, coupled to the RF enclosure;

a nest stationary base plate, coupled to the drawer base plate;

a stationary base assembly, coupled to the nest stationary base plate;

one or more lower nest assemblies, coupled to the stationary base assembly, said one or more lower nest assemblies operable to provide support from below to one or more corresponding nests; and

one or more upper nest assemblies, coupled to the one or more corresponding lower nest assemblies, said one or more upper nest assemblies operable to provide support from above to the one or more corresponding nests.

11. (ORIGINAL) The mechanical apparatus of claim 10, wherein the drawer base plate comprises one or more guide plates, said guide plates operable to enable the nest stationary base plate to be oriented with respect to the drawer base plate.

12. (ORIGINAL) The mechanical apparatus of claim 10, wherein the one or more lower nest assembly and the upper nest assembly contain one or more alignment features suitable for aligning a lower nest assembly with the corresponding upper nest assembly.

13. (ORIGINAL) The mechanical apparatus of claim 10, wherein the stationary base assembly further comprises:

a base probe plate;

one or more guide shafts, coupled to the base probe plate;

one or more locating cones for upper nest assembly alignment, coupled to the guide shaft;

one or more down stops, coupled to the one or more guide shafts and coupled to the base probe plate from above;

a left standoff, coupled to the base probe plate from below;

a right standoff, coupled to the base probe plate from above;

one or more pneumatic fittings, coupled to one of the left standoff and the right standoff; and

a PCA mount, coupled to the right standoff and coupled to the left standoff.

14. (ORIGINAL) The mechanical apparatus of claim 10, wherein the lower nest assembly further comprises:

a left bearing mount, coupled to the upper nest assembly;

a right bearing mount, coupled to the upper nest assembly;

DUT support plate, coupled to the stationary base assembly, coupled to the right bearing mount, and coupled to the left bearing mount; and

a pneumatic air supply assembly, coupled to the DUT support plate, said pneumatic air supply assembly operable to supply pressurized air to a nest.

15. (ORIGINAL) The mechanical apparatus of claim 10, wherein the upper nest assembly further comprises:

an upper nest plate, coupled to the lower nest assembly;

a cross bar, coupled to the upper nest plate; and

one or more screws, coupled to the cross bar, said one or more screws operable to couple the upper nest assembly to the lower nest assembly.

16. (ORIGINAL) A mechanical apparatus operable for rapid replacement of one or more RF fixture customizations, further comprising:

an RF enclosure;

a drawer base plate, coupled to the RF enclosure;

a nest stationary base plate, coupled to the drawer base plate, said nest stationary base plate further comprising:

one or more o-rings, coupled to one or more holes located in stationary base plate and coupled to one or more corresponding holes in the drawer base plate; and

one or more fasteners, coupled to the nest stationary base plate in one or more locations and coupled to the drawer base plate in the one or more locations.

17. (ORIGINAL) The mechanical apparatus of claim 16, wherein the drawer base plate comprises one or more guide plates, said guide plates operable to enable the nest stationary base plate to be oriented with respect to the drawer base plate.

18. (ORIGINAL) The mechanical apparatus of claim 16, wherein the one or more o-rings are placed on two straight lines along the long axis of the drawer base plate.
19. (ORIGINAL) The mechanical apparatus of claim 16, wherein the one or more pneumatic fittings are place below the one or more o-ring locations.
20. (ORIGINAL) The mechanical apparatus of claim 16, wherein the fastener tightens the drawer plate to the stationary base plate.
21. (PREVIOUSLY PRESENTED) A mechanical apparatus operable for rapid replacement of one or more RF fixture customizations, further comprising:
- an RF enclosure;
 - a nest stationary base plate, coupled to the RF enclosure;
 - a stationary base assembly, coupled to the nest stationary base plate;
 - one or more nest assemblies, coupled to the stationary base assembly, said one or more nest assemblies operable to provide support to one or more corresponding nests.
22. (PREVIOUSLY PRESENTED) A mechanical apparatus operable for rapid replacement of one or more RF fixture customizations, further comprising:

an RF enclosure;

a nest stationary base plate, coupled to the RF enclosure, said nest stationary base plate further comprising:

one or more o-rings, coupled to one or more holes located in stationary base plate and coupled to one or more corresponding holes in the RF enclosure; and

one or more fasteners, coupled to the nest stationary base plate in one or more locations and coupled to the RF enclosure in the one or more locations.